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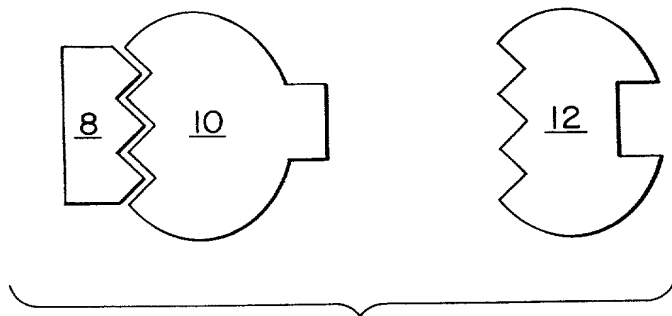


FIG. 1A

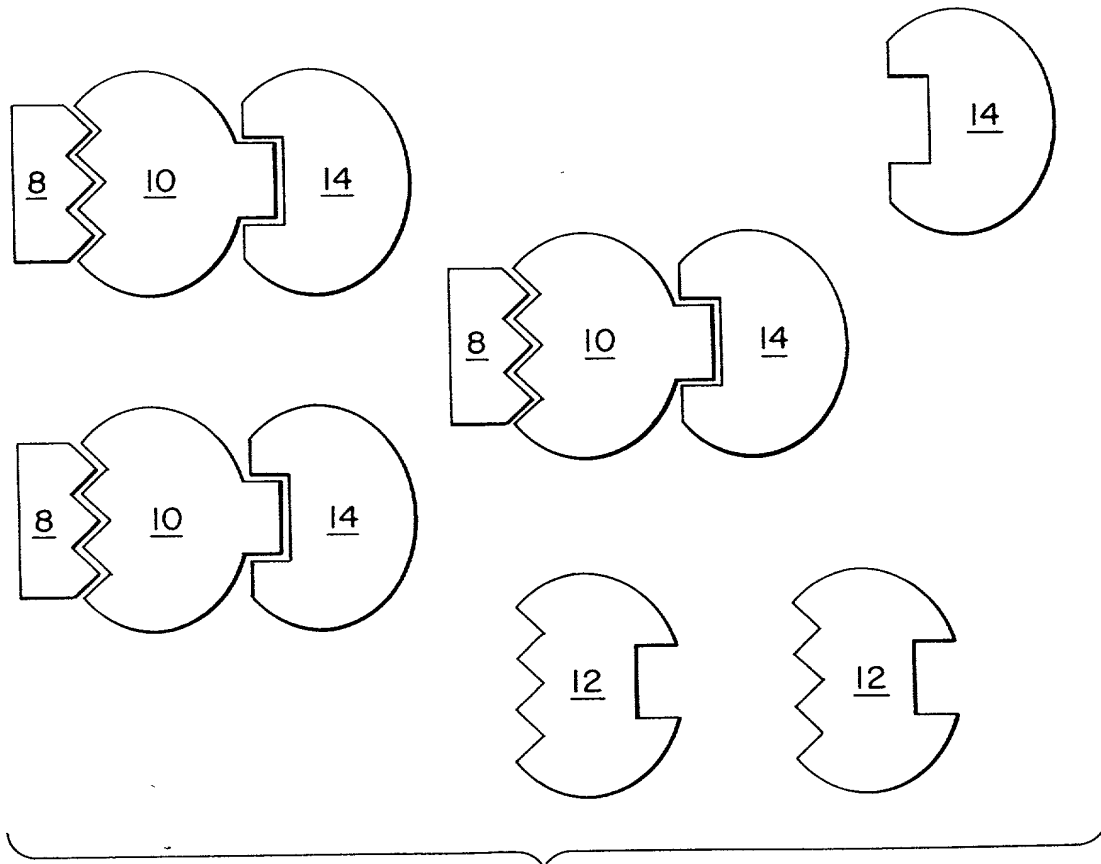


FIG. 1B

10032827.041602

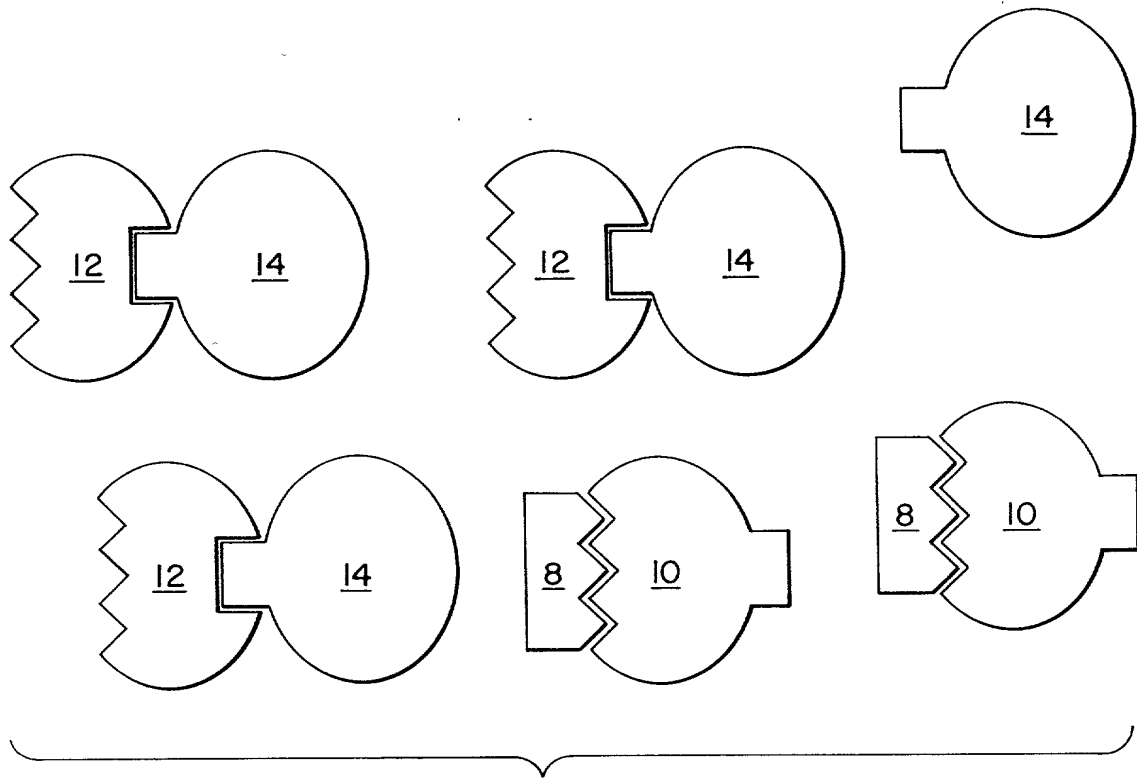
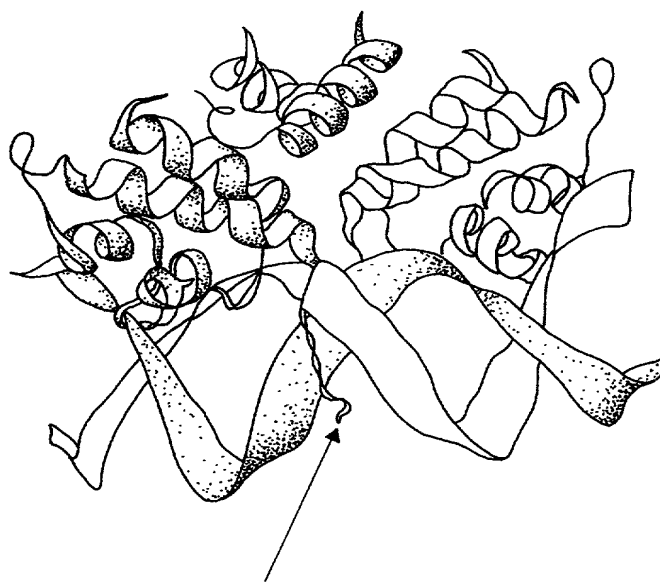


FIG. 1C

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Insertion before arm

FIG. 2

10032827.041602

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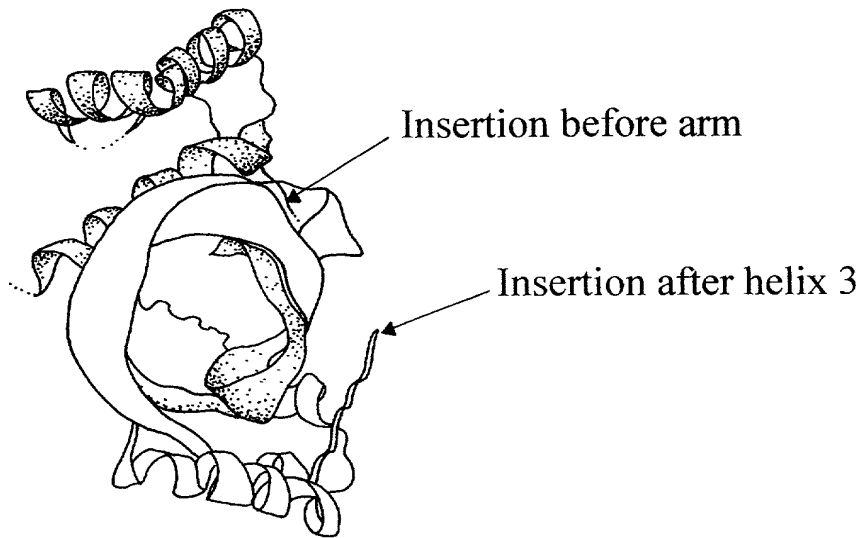


FIG. 3

10032827.041602

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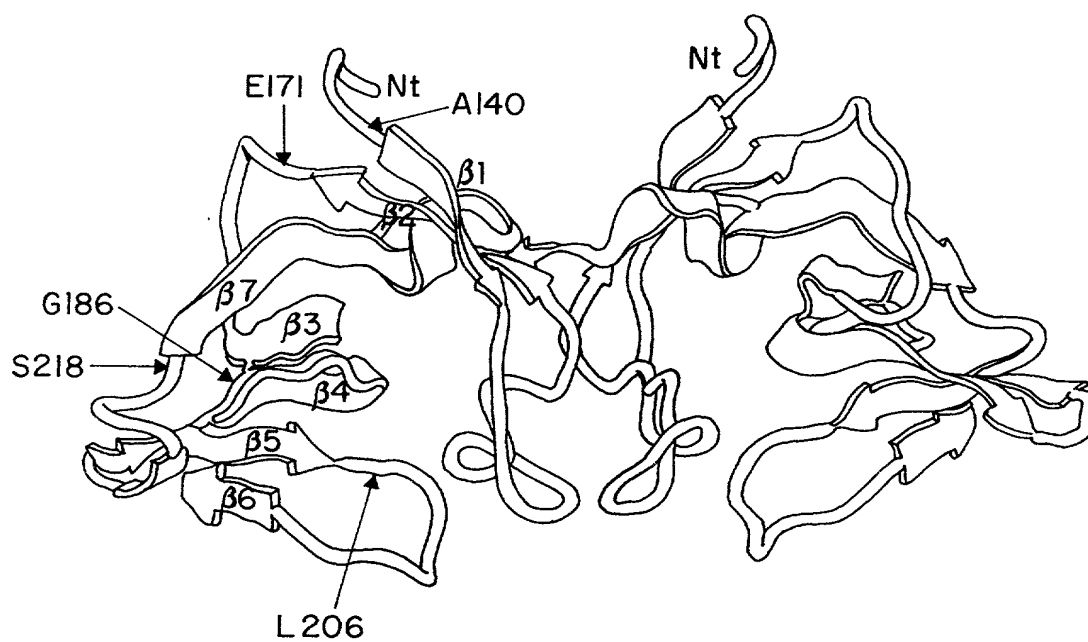
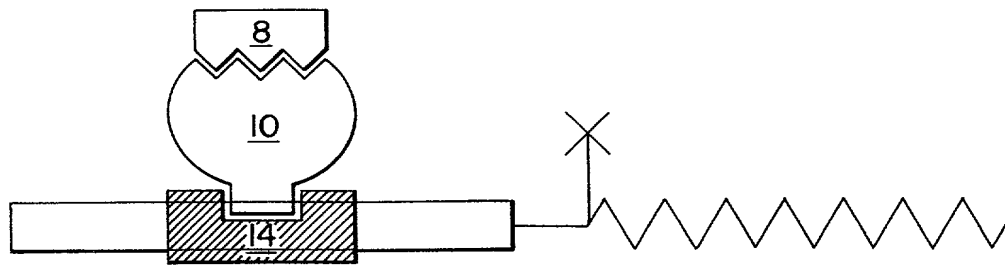
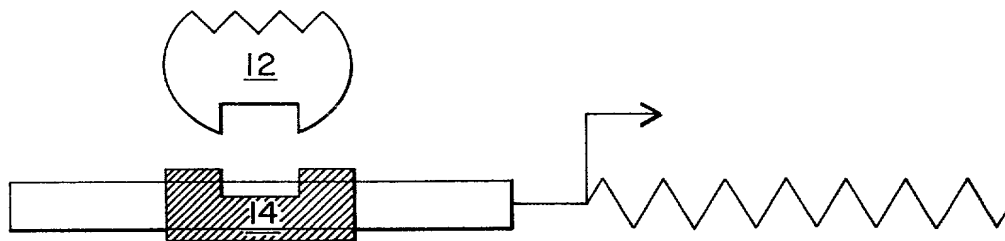


FIG. 4

SIMPLE BINARY SWITCH



STIMULUS PRESENT



STIMULUS ABSENT

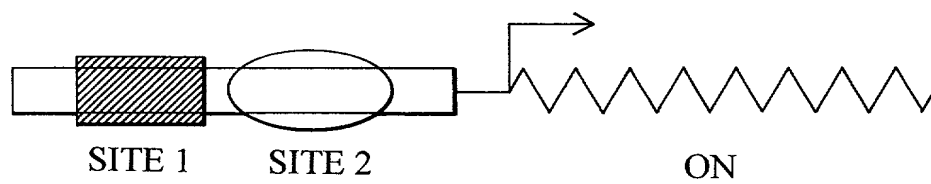
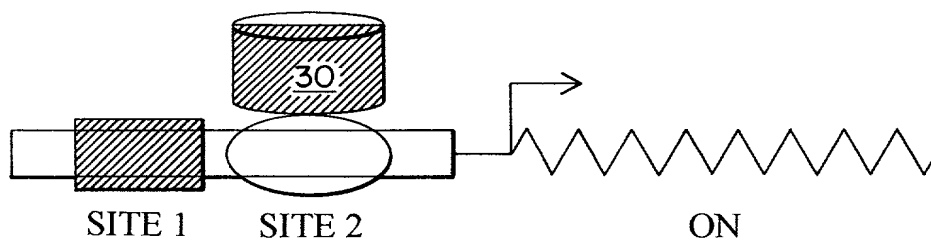
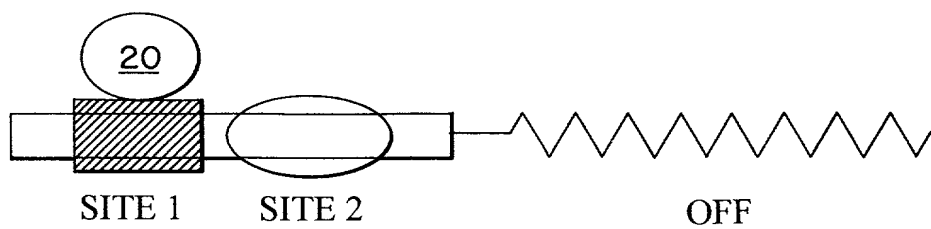
 AN ACTIVE PROMOTER

 REPRESSOR BINDING SITE

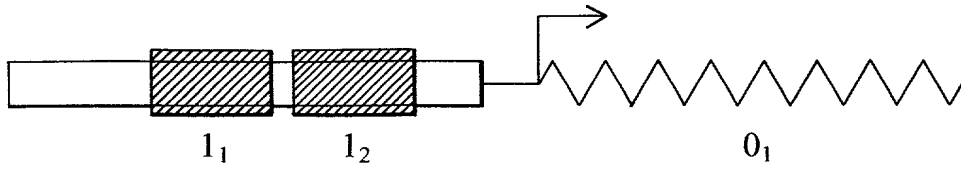
 REPORTER GENE

FIG. 5

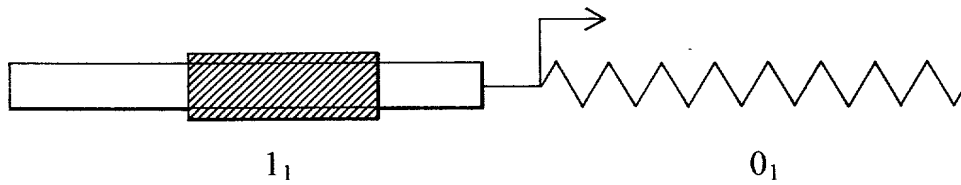
FLIP-FLOP

*FIG. 6*

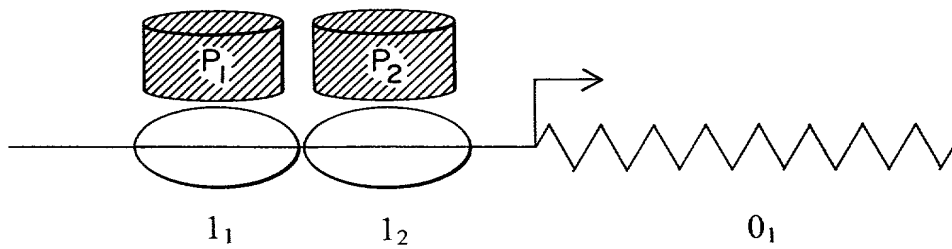
NOR GATE:

*FIG. 7A*

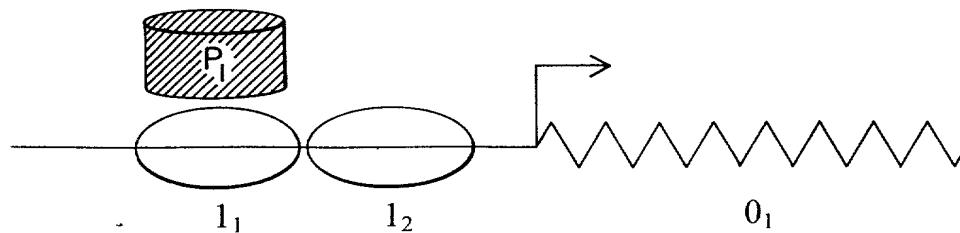
NOT GATE:

*FIG. 7B*

AND GATE:

*FIG. 7C*

OR GATE:

*FIG. 7D*

NAND GATE:

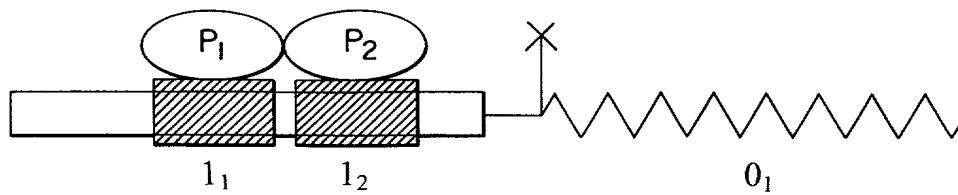
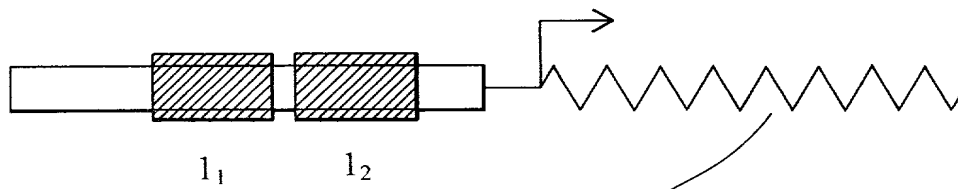


FIG. 7E

GATE A (NOR)



GATE B (NOT)

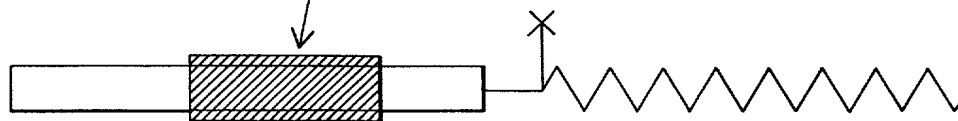


FIG. 8

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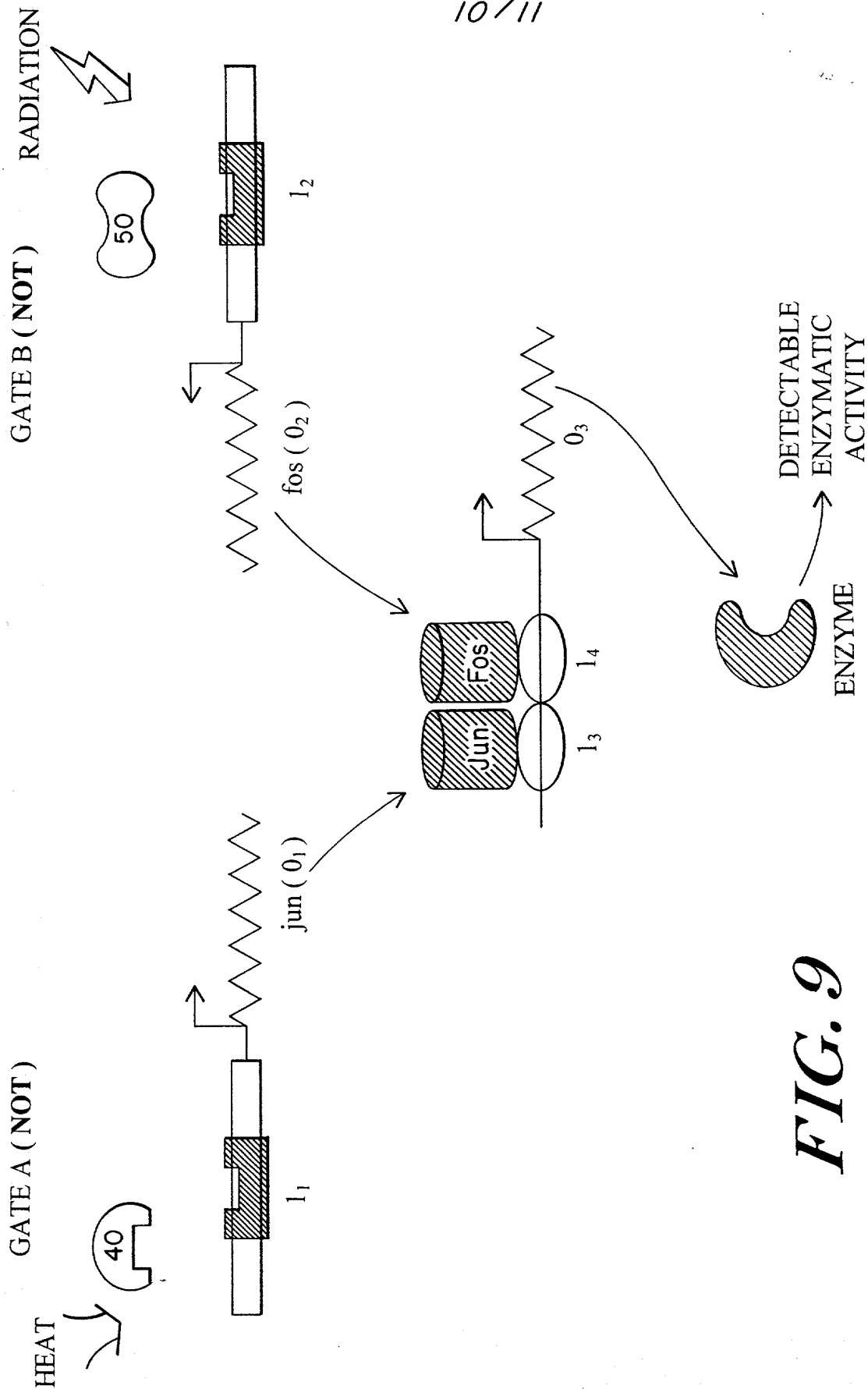


FIG. 9

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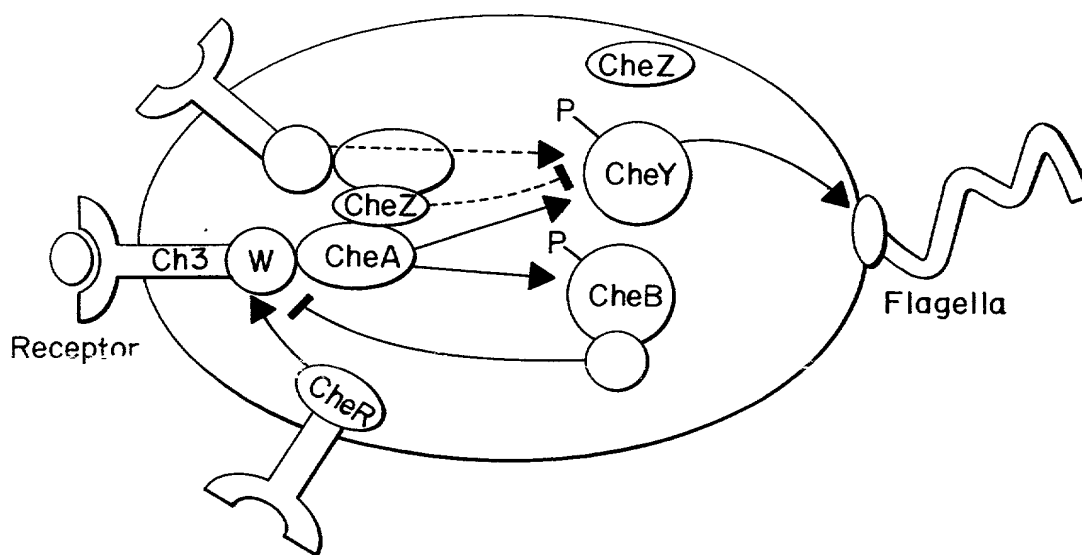


FIG. 10